



DEFENSE ACQUISITION UNIVERSITY

BCF 215 – Operating and Support Cost Analysis

110127

Course Learning/Performance Objectives followed by its enabling learning objectives on separate lines if specified.

1	Describe the operating and support (O&S) phase of a weapons system, including the breadth of O&S cost estimating.
	Explain the trends in defense-wide and system O&S costs.
	Define the full scope of O&S costs.
	Differentiate the three major considerations that influence O&S costs.
	Summarize the uses of O&S cost analysis throughout a system's life cycle.
	Explain key O&S cost analysis terms and concepts.
2	Discuss the principal planning elements for O&S estimating.
	Explain the steps in preparing an O&S estimate.
	Identify the range of assumptions that drive O&S estimates.
	Explain the purposes and uses of O&S cost estimating structures.
	Differentiate between the principal cost estimating methods used with O&S estimates.
3	Discuss basic reliability, availability, and maintainability (RAM) terminology and relationships.
	Explain basic RAM terminology
	Apply basic RAM relationships
	Describe how reliability, availability, and maintainability impact O&S costs
	Identify the basic RAM data sources
4	Estimate personnel costs using accepted practices.
	Identify where personnel costs occur in O&S estimates.
	Describe the general assumptions that affect personnel cost estimates.
	Explain how to price personnel to include when to use composite standard rates, acceleration factors, differential costs, and indirect costs.
	Identify major sources of personnel cost data.
	Explain the purpose and role of the Manpower Estimate Report.
	Estimate unit personnel costs considering system characteristics, operating concepts, and support concepts.
5	Estimate unit operating costs.
	Identify the range of operating costs that should be considered.
	Explain standard methods used to estimate unit operating consumable costs.
	Apply methods appropriately to estimate unit operating consumable costs.
6	Estimate maintenance costs for weapon systems.
	Identify the types of costs included in the maintenance portion of the estimate.
	Explain the factors that influence maintenance costs.
	Apply methods used to estimate maintenance costs.
7	Estimate the elements of sustaining support.
	Identify the types of costs included in estimates of sustaining support.
	Explain the factors that affect sustaining support costs.
	Apply methods used to estimate sustaining support costs.
8	Estimate the elements of continuing system improvement
	Identify the range and types of costs included.
	Explain the factors that influence continuing system improvement costs.
	Apply methods to estimate continuing system improvement costs.
9	Describe the breadth, depth, strengths, and limitations of the O&S data available in the VAMOSOC system.
	Explain the motivation for VAMOSOC creation and maintenance.
	Give examples of the variety of data included in the automated system.
	Describe the value of the system as a source of analogous data for estimation.
10	Prepare an independent estimate for comparison to the official program office estimate.



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	Prepare an independent estimate.
	Describe how independent estimates compare to program office estimates and actual results.
11	Apply the O&S estimating techniques taught given a realistic case scenario.
	Structure the O&S estimate.
	Adjust data for differences in time.
	Perform analogy estimates.
	Estimate personnel, unit operations, maintenance, sustaining support, and continuing improvement costs.
	Adjust estimates based on different operating tempo and RAM characteristics.
	Prepare a consistent O&S estimate.
12	Defend an O & S cost estimate given a case scenario.
	Prepare a clear and logical presentation.
	Defend a portion of the O&S estimate
	Evaluate O&S analyses by differing teams.